Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSSPTA1639MLS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAY 01	New CAS web site launched
NEWS 3	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10	JUN 29	STN Viewer now available
NEWS 11	JUN 29	STN Express, Version 8.2, now available
NEWS 12	JUL 02	LEMBASE coverage updated
NEWS 13	JUL 02	LMEDLINE coverage updated
NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	CHEMCATS accession numbers revised
NEWS 16	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 17	JUL 16	CAplus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/CAplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
NEWS 21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 22	AUG 06	BEILSTEIN updated with new compounds
NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 25	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

```
FILE 'HOME' ENTERED AT 15:59:39 ON 21 AUG 2007

=> fil medline biosis caplus scisearch embase wpids
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'MEDLINE' ENTERED AT 16:00:03 ON 21 AUG 2007

FILE 'BIOSIS' ENTERED AT 16:00:03 ON 21 AUG 2007
Copyright (c) 2007 The Thomson Corporation

FILE 'CAPLUS' ENTERED AT 16:00:03 ON 21 AUG 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'SCISEARCH' ENTERED AT 16:00:03 ON 21 AUG 2007
Copyright (c) 2007 The Thomson Corporation

FILE 'EMBASE' ENTERED AT 16:00:03 ON 21 AUG 2007
Copyright (c) 2007 Elsevier B.V. All rights reserved.

FILE 'WPIDS' ENTERED AT 16:00:03 ON 21 AUG 2007
COPYRIGHT (C) 2007 THE THOMSON CORPORATION

=> e kiessling laur?/au
E1          76     KIESSLING L S/AU
E2           2.    KIESSLING LAESSIG A/AU
E3           0 --> KIESSLING LAUR?/AU
E4           5     KIESSLING LAURA/AU
E5         384     KIESSLING LAURA L/AU
E6           1     KIESSLING LAURA LEE/AU
E7           2     KIESSLING LEIF/AU
E8           1     KIESSLING LORENZ/AU
E9           4     KIESSLING LOU ANN/AU
E10          1     KIESSLING LOUIS S/AU
E11          6     KIESSLING LOUISE/AU
E12         14     KIESSLING LOUISE S/AU

=> e4-e6
L1          390 ("KIESSLING LAURA"/AU OR "KIESSLING LAURA L"/AU OR "KIESSLING
                LAURA LEE"/AU)

=> atom (s) transfer (s) radical (s) polyme?
L2         7338 ATOM (S) TRANSFER (S) RADICAL (S) POLYME?

=> l1 and l2
L3            4 L1 AND L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4            4 DUP REM L3 (0 DUPLICATES REMOVED)

=> d ibib abs l4 1-4

L4   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2005:200894  CAPLUS
DOCUMENT NUMBER:          143:168462
TITLE:                    Biologically active polymeric multivalent ligands
AUTHOR(S):                Kiessling, Laura L.
CORPORATE SOURCE:         Department of Chemistry and Biochemistry, University
                          of Wisconsin-Madison, Madison, WI, 53706, USA
SOURCE:                   Polymer Preprints (American Chemical Society, Division
                          of Polymer Chemistry) (2005), 46(1), 122
```

CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal; (computer optical disk)
LANGUAGE: English

AB Multivalent ligands, compds. that display multiple copies of a binding epitope, can serve as potent inhibitors or effectors of biol. processes. To generate biol. active polymers, the ring-opening metathesis polymerization (ROMP) and atom-transfer radical polymerization (ATRP) were employed. Polymers generated by ROMP are shown biol. active as both inhibitors and effectors. For example, carbohydrate substituted polymers are potent inhibitors of protein, carbohydrate recognition events, including those involved in cell adhesion. In addition, polymers displaying binding epitopes for cell surface receptors can cluster these receptors and thereby promote specific cellular responses.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1060761 CAPLUS
DOCUMENT NUMBER: 142:36914
TITLE: Multivalent ligands comprising signal recognition element and binding recognition element for regulating cellular responses and designing diagnostic and therapeutic effector molecules
INVENTOR(S): Kiessling, Laura L.; Griffith, Byron R.; Gestwicki, Jason E.; Strong, Laura
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 76 pp., Cont.-in-part of U.S. Ser. No. 815,296.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004248801	A1	20041209	US 2004-806056		20040322
US 2003125262	A1	20030703	US 2001-815296		20010321
PRIORITY APPLN. INFO.:			US 2000-191014P	P	20000321
			US 2001-815296	A2	20010321
			US 2003-456778P	P	20030321

AB This invention provides multivalent ligands which carry or display at least one recognition element (RE), and preferably a plurality of recognition elements, for binding directly or indirectly to cells or other biol. particles or more generally by binding to any biol. mol. The multivalent ligands provided can most generally function for binding or targeting to any biol. particle or mol. and particularly to targeting of cells or cell types or viruses, for cell aggregation and generally for macromol. assembly of biol. macromols. The multivalent ligands of this invention are generally applicable for creating scaffolds (assemblies) of chemical or biol. species, including without limitation, antigens, epitopes, ligand binding groups, ligands for cell receptors (cell surface receptors, transmembrane receptors and cytoplasmic receptors), and various macromols. (nucleic acids, carbohydrates, saccharides, proteins, peptides, etc.). In these scaffolds, the number, spacing, relative positioning and relative orientation of recognition elements can be controlled. Multivalent ligands of this invention can carry or display at least one signal recognition element (SRE), and preferably a plurality of signal recognition elements, and modulate biol. responses in biol. systems. The SRE is selected from an amino acid, peptide, protein, derivatized peptide, epitope, monosaccharide, disaccharide, polysaccharide, nucleic acid, cell nutrient, antigen, small drug-like compound, hapten, antibody or fragment,

or cell surface receptor. Multivalent ligands of this invention can carry or display at least one binding recognition element (BRE), and preferably a plurality of binding recognition elements, optionally in combination with one or more SRE, and modulate biol. responses in biol. systems. The invention also relates to methods for aggregating biol. particles and macromols. and for modulating biol. response employing the multivalent ligands provided.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:61189 CAPLUS
DOCUMENT NUMBER: 140:267083
TITLE: A polymer scaffold for protein oligomerization
AUTHOR(S): Griffith, Byron R.; Allen, Benjamin L.; Rapraeger, Alan C.; Kiessling, Laura L.
CORPORATE SOURCE: Departments of Chemistry, Pathology and Laboratory Medicine, and Biochemistry, University of Wisconsin-Madison, Madison, WI, 53706, USA
SOURCE: Journal of the American Chemical Society (2004), 126(6), 1608-1609
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We report the design and synthesis of well-defined polymers for the noncovalent oligomerization of proteins. The reported scaffolds, which were generated by atom-transfer radical polymerization (ATRP), take advantage of the well-characterized interaction between a Ni2+ complex and an oligohistidine sequence (His tag). Thus, our polymers are designed to facilitate the oligomerization of any protein possessing a His tag. We demonstrate that they can oligomerize fibroblast growth factor-8b (FGF-8b) and promote FGF-8b-mediated cell proliferation in the absence of heparin.
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:184276 CAPLUS
TITLE: Ni-chelating polymer scaffolds for protein oligomerization
AUTHOR(S): Griffith, Byron R.; Allen, Ben; Rapraeger, Alan C.; Kiessling, Laura L.
CORPORATE SOURCE: Department of Chemistry, University of Wisconsin-Madison, Madison, WI, 53706, USA
SOURCE: Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MEDI-310. American Chemical Society: Washington, D. C.
CODEN: 69DSA4
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
AB We have developed a general non-covalent scaffold for the oligomerization of any protein bearing a histidine (His) tag. We envision this scaffold could serve as a potentially powerful new biochem. tool with which to address questions regarding monovalent vs. multivalent protein presentation in biol. systems (e.g. growth factor-mediated cell signaling). Our scaffolds were synthesized by functionalizing a succinimide ester-substituted polymer generated by atom -transfer radical polymerization (ATRP) with a nucleophile containing a protected nitriloacetic acid (NTA) Ni2+-chelating functionality. Upon deprotection under standard hydrolytic conditions, we treated the polymer with Ni2+ and purified the resulting complex by dialysis. We subsequently tested the polymer for the ability to cluster proteins with His tags in solution We found these agents oligomerize proteins; gel electrophoresis after treatment of the complexes with a covalent cross-linker gives rise to bands corresponding to higher mol. weight proteins. Given these results,

we have begun testing these polymers for the ability to cluster FGF and induce FGF-mediated cell proliferation in a heparan sulfate-deficient cell line. We have obtained preliminary results that suggest these polymers can, in fact, induce FGF-mediated cell proliferation in the absence of heparan sulfate. We anticipate that these reagents may serve as useful probes of the mechanism of heparan sulfate-stimulated growth factor signaling.

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    35.82      36.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -3.12      -3.12

FILE 'STNGUIDE' ENTERED AT 16:02:34 ON 21 AUG 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 17, 2007 (20070817/UP).

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.36      36.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -3.12

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 16:05:53 ON 21 AUG 2007
```

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Tuesday, August 21, 2007

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT; PLUR=YES; OP=OR	
☐	L8	6803438.pn. and l7	1
☐	L7	(vivo or live or cell or life or biol$ or drug or medicine or vitro) and l5	18
☐	L6	(vivo or living or live or cell or life or biol$ or drug or medicine or vitro) and l5	51
☐	L5	((atom adj transfer adj radical adj polyme$) or ATRP).clm. and l4	51
☐	L4	(((atom adj transfer adj radical adj polyme$) or ATRP) same (ligand or receptor or cluste$ or scaffold)) and l3	192
☐	L3	(atom adj transfer adj radical adj polyme$) same (ligand or receptor or cluste$ or scaffold)	192
☐	L2	atom adj transfer adj radical adj polyme$	1161
☐	L1	((atom adj transfer adj radical adj polymerization) and (kiessling.inv.))	1

END OF SEARCH HISTORY